

ABSTRACT

A distortion compensator compensates for distortion arising in an amplifier that amplifies a signal with improved efficiency. The distortion compensator includes a
5 signal level detector which detects the level of a signal to be amplified by an amplifier,
a distortion compensation execution unit which executes distortion compensation on the
signal to be amplified according to a mode of distortion compensation corresponding to
the signal level detected by the signal level and a correspondence between signal levels
and distortion compensation control values as pairs, a distortion compensation control
10 value correspondence updater which updates the correspondence between the signal
levels and the distortion compensation control values used in the execution of distortion
compensation, and a distortion compensation control value number controller which
controls the values of stipulated parameters.

15